

PROPOSED AMENDMENTS TO THE CLAIMS

1. **(Original)** An apparatus for transmitting and receiving data in a microwave oven having a data transmitting/receiving function from an external system, the apparatus comprising:

- a wireless data transmitting/receiving unit for conducting wireless data communication with an external system including an information appliance;
- a data storage unit for storing transmitted/received data through the wireless data transmitting/receiving unit and/or downloaded data from Internet;
- a display unit for displaying transmitted data from the wireless data transmitting/receiving unit;
- a load drive unit for driving a magnetron and/or a heater; and

Micom interfaced with the wireless data transmitting/receiving unit, the data storage unit, the display unit, and the load drive unit, and interpreting the transmitted data from the wireless data transmitting/receiving unit and/or checking a state of the microwave oven, and controlling the wireless data transmitting/receiving unit to transmit the data on the state of the microwave oven to an information appliance.

Claim 2. **(Cancelled).**

3. **(Original)** An apparatus for transmitting and receiving data in a microwave oven, the apparatus comprising:

- a physical layer having a data communication means for transmitting and receiving data wirelessly between an information appliance and the microwave oven, and a data storage means for storing data downloaded by the data communication means;
- an application layer for interpreting and processing data information received from the physical layer, and producing data information to be transmitted to the physical layer; and

a data link layer for configuring at least a packet by using the data information transmitted from the application layer, and transmitting the packet to the physical layer, and/or processing the packet transmitted from the physical layer, so that the packet is transmitted to the application layer.

4. **(Original)** The apparatus according to claim 3, wherein the data information the application layer transmits and receives is comprised of at least one of a message in relation to load control on time, temperature and output for a cooking recipe, or memory control method; a message for a control method that is not pre-designated in the microwave oven and a screen; and a necessary message for transmitting information on the internal state of the microwave oven to the information appliance.

Claims 5 – 12 **(Cancelled)**

13. **(New)** The apparatus according to claim 3, wherein the data communication means is a Bluetooth module for providing Bluetooth communication between the information appliance and the microwave oven.